

# EAST - interference search

| Ref # | Hits | Search Query   | DBs      | Default Operator | Plurals | Time Stamp       |
|-------|------|--|----------|------------------|---------|------------------|
| L5    | 41   | ((cd near6 laser) and (dvd near6 laser)).clm.  | US-PGPUB | OR               | ON      | 2006/02/02 14:33 |
| L6    | 229  | ((laser) and ((buried or burying or enclosed or covered) near ridge or rib)).clm.  | US-PGPUB | OR               | ON      | 2006/02/02 14:34 |
| L7    | 13   | ((laser) and ((buried or burying or enclosed or covered) near ridge or rib) and (current near blocking or gaas or gallium near arsenide or ingaasp or ingaas or ingap or semiconductor or semiconducting) near6 (burying or buried or bury or wall or sidewall or side or edge)).clm.                                  | US-PGPUB | OR               | ON      | 2006/02/02 14:36 |
| L8    | 2    | ((laser) and ((buried or burying or enclosed or covered) near ridge or rib) and (real or gain) near (guided or guide)).clm.  | US-PGPUB | OR               | ON      | 2006/02/02 14:37 |
| L9    | 12   | ((laser) and (real or gain) near (guided or guide) and (loss or lossy or index or complex or imaginary or attenuated or attenuation) near (guide or guided)).clm.  | US-PGPUB | OR               | ON      | 2006/02/02 14:39 |
| L10   | 2    | ((laser) and (real or gain) near (guided or guide) and (buried or burying or sidewall or side or edge or wall) same (sin or sio or silicon adj nitride or silicon adj oxide or silicon adj dioxide or sion or oxynitride or dielectric) same (semiconductor or gaas or ga near as or ingaas or gaasp or ingaasp)).clm. | US-PGPUB | OR               | ON      | 2006/02/02 14:40 |
| L11   | 23   | ((laser) and (ridge or rib or waveguide or guide) same (buried or burying or sidewall or side or edge or wall) same (sin or sio or silicon adj nitride or silicon adj oxide or silicon adj dioxide or sion or oxynitride or dielectric) same (semiconductor or gaas or ga near as or ingaas or gaasp or ingaasp)).clm. | US-PGPUB | OR               | ON      | 2006/02/02 14:40 |

# EAST - search notes

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| L15   | 21   | h01s005/223.ipc. and (buried or burying or enclosed or surrounded) near3 (ridge or rib or waveguide or guide)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/02/02 13:29 |
| L14   | 9    | h01s005/223.ipc. and (buried or burying or real or gain or index or loss or covered or sidewall or side or wall or edge) near8 (gallium near arsenide or gaas or ga near as or semiconductor or semiconducting) near8 (dielectric or insulator or insulating or sin or silicon adj nitride or silicon adj oxide or silicon adj dioxide or sio or oxynitride or sion) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/02/02 13:28 |
| L13   | 8    | h01s005/223.ipc. and (buried or burying or real or gain or index or loss or covered or sidewall or side or wall or edge) near8 (gallium near arsenide or gaas or ga near as or semiconductor or semiconducting) near8 (dielectric or insulator or insulating or sin or silicon adj nitride or silicon adj oxide or silicon adj dioxide or sio or oxynitride or sion) | EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR               | ON      | 2006/02/02 13:24 |
| L12   | 749  | h01s005/223.ipc.   | EPO; JPO;<br>DERWENT;<br>IBM_TDB                        | OR               | ON      | 2006/02/02 13:21 |
| L6    | 804  | 257/14.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/02/02 13:18 |
| L7    | 428  | 257/14.ccls. and laser   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/02/02 13:18 |
| L5    | 50   | 372/50.121.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/02/02 13:17 |
| S57   | 562  | 372/23.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/02/02 13:04 |
| S56   | 68   | (laser) near4 (ridge or rib) near6 (real or gain) near4 (guide or guided or waveguide or guiding or waveguiding)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/02/02 11:33 |
| S55   | 68   | (laser) near4 (ridge or rib) near6 (real or gain) near4 (guide or guided or waveguide or guiding or waveguiding)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/02/02 11:26 |
| S54   | 12   | (laser) near4 (ridge or rib) near10 (clad or cladding or burying or buried or enclosing or sidewall or wall or overlying or upon or top or "adjacent" or abutting) near4 (dielectric or sin or silicon near nitride or sio or silicon near oxide or silicon near dioxide or oxynitride or sion)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/02/02 11:25 |
| S53   | 393  | 257/89.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/02/02 11:22 |

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|-----|-----|--|---|----|----|------------------|
| S51 | 885 | 257/88.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/02 11:18 |
| S52 | 326 | 257/88.ccls. and laser   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/02 11:12 |
| S50 | 344 | 257/15.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/02 11:11 |
| S49 | 389 | 257/13.ccls. and laser   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/02 11:05 |
| S48 | 603 | 257/13.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/02 10:46 |
| S47 | 105 | (monolithic or integral or integrated or unitary) near4 (laser) near6 (dual or multi or multiple or several or two or plural) near4 (wavelength or lambda or frequency) and (gain or complex or imaginary or gaining or real or index or loss or lossy) near4 (waveguide\$3 or guide)  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/02/02 10:39 |
| S46 | 359 | (monolithic or integral or integrated or unitary) near4 (laser) near6 (dual or multi or multiple or several or two or plural) near4 (wavelength or lambda or frequency)  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/02/02 10:11 |
| S45 | 62  | (cd or compact near disc) near6 laser and (guide or waveguide) near6 (real or gain) and (gaas or algaas or ga near as or gallium near arsenide)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/02 10:07 |
| S44 | 198 | (cd or compact near disc) near8 (dvd or digital near versatile near disc) near6 laser and (gaas or algaas or ga near as or gallium near arsenide)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/02 09:52 |
| S43 | 44  | (gaas or algaas or ingaas or ga adj as or gallium adj arsenide) near8 laser same (buried or burying or covered or embedded or embedding) near4 (rib or ridge) and (loss or gain or normal or complex or index or indexed) near2 (guide or waveguide or guiding)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/02 09:47 |
| S42 | 185 | (gaas or ga adj as or gallium near arsenide) and (multi or multiple or plural or plurality or second or secondary or two) near2 (wavelength or lambda) and (loss or lossy) near2 (guide or waveguide or section or area or length or region) and (gain or gaining or multiplication) near2 (guide or waveguide or section or area or length or region) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/02 09:33 |
| S41 | 43  | (laser or cd) and (ridge) near4 (burying or buried or cladding) near8 (silicon adj nitride or sin or sio or silicon adj oxide or silicon adj dioxide or dielectric or oxynitride)  | US-PGPUB;<br>USPAT                                      | OR | ON | 2006/02/02 09:24 |

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|-----|----|---|--------------------|----|----|------------------|
| S40 | 25 | (US-20010048111-\$ or US-20020008242-\$ or US-20020185643-\$ or US-20030021320-\$ or US-20030043874-\$ or US-20030043875-\$ or US-20030133484-\$ or US-20030152123-\$ or US-20050030997-\$ or US-20050100060-\$ or US-20050117616-\$).did. or (US-5701322-\$ or US-5898722-\$ or US-5982799-\$ or US-6287884-\$ or US-6358764-\$ or US-6472680-\$ or US-6480456-\$ or US-6542528-\$ or US-6614821-\$ or US-6618420-\$ or US-6643310-\$ or US-6738402-\$ or US-6757311-\$ or US-6900069-\$).did. | US-PGPUB;<br>USPAT | OR | ON | 2006/02/02 09:23 |
|-----|----|---|--------------------|----|----|------------------|